

PARTIAL TRANSLATION OF JP 2002234763

(54) [Name of the patent] Concrete Admixture

(57) [Abstract]

[Challenges]

We provide concrete admixture which reduces black dirt on the concrete surface,  
without any loss of concrete strength.

[Solutions]

Concrete admixture containing one or more surfactants.

The surfactant can be non-ionic surfactant with HLB 17.5-19.5 containing 15-200 ethylene oxide groups per one molecule,  
or anionic surfactant containing 15-200 ethylene oxide groups per one molecule.

[Range of the patent]

[Claim 1]

Concrete admixture containing one or more surfactants.

The surfactant can be non-ionic surfactant with HLB 17.5-19.5 containing 15-200 ethylene oxide groups per one molecule,  
or anionic surfactant containing 15-200 ethylene oxide groups per one molecule.

[Claim 2]

Concrete admixture described in Claim 1 of which the surfactant is alkyl poly(ethylene oxide) with 10-30 carbon atoms,  
or its sulfate or carboxylate, and alkylphenyl poly(ethylene oxide) with 6-20 carbon atoms.

[Claim 3]

Hydraulic composition consisting of hydraulic compound, one or more of blast-furnace slag, fly ash, and silica fume,  
and concrete admixture described in Claim 1 or 2.

[Claim 4]

Hydraulic composition described in Claim 3 for which the ratio of the concrete admixture to the hydraulic compound is 0.00001-0.1 w%.

[Claim 5]

Production method of hardened concrete which uses hydraulic composition consisting of hydraulic compound, one or more of blast-furnace slag, fly ash, and silica fume, and concrete admixture described in Claim 1 or 2 whose amount is 0.00001-0.1 w% of the hydraulic composition.